

Hannu Antero Kurki-Suonio

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	<i>Planck</i> early results. I. The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2011, 536, A1.	2.1	394
2	<i>Planck</i> 2013 results. XXIX. The <i>Planck</i> catalogue of Sunyaev-Zeldovich sources. <i>Astronomy and Astrophysics</i> , 2014, 571, A29.	2.1	380
3	Deflagrations and detonations as a mechanism of hadron bubble growth in supercooled quark-gluon plasmas. <i>Nuclear Physics B</i> , 1984, 237, 477-501.	0.9	225
4	Cosmological perturbations in the Palatini formulation of modified gravity. <i>Classical and Quantum Gravity</i> , 2006, 23, 2355-2369.	1.5	190
5	Growth of bubbles in cosmological phase transitions. <i>Physical Review D</i> , 1994, 49, 3854-3868.	1.6	172
6	Bubble growth and droplet decay in the quark-hadron phase transition in the early Universe. <i>Physical Review D</i> , 1986, 34, 1719-1738.	1.6	153
7	Deflagration bubbles in the quark-hadron phase transition. <i>Nuclear Physics B</i> , 1985, 255, 231-252.	0.9	101
8	Supersonic deflagrations in cosmological phase transitions. <i>Physical Review D</i> , 1995, 51, 5431-5437.	1.6	97
9	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i>. <i>Astronomy and Astrophysics</i> , 2011, 536, A2.	2.1	91
10	Big bang nucleosynthesis and the quark-hadron transition. <i>Astrophysical Journal</i> , 1990, 353, 406.	1.6	90
11	<i>Planck</i> pre-launch status: The <i>Planck</i>-LFI programme. <i>Astronomy and Astrophysics</i> , 2010, 520, A3.	2.1	81
12	Correlated primordial perturbations in light of CMB and large scale structure data. <i>Physical Review D</i> , 2005, 71, .	1.6	77
13	Limits on isocurvature fluctuations from Boomerang and MAXIMA. <i>Physical Review D</i> , 2000, 62, .	1.6	76
14	<i>Planck</i> pre-launch status: Expected LFI polarisation capability. <i>Astronomy and Astrophysics</i> , 2010, 520, A8.	2.1	69
15	Inflation from inhomogeneous initial data in a one-dimensional back-reacting cosmology. <i>Physical Review D</i> , 1987, 35, 435-448.	1.6	61
16	Baryon-number inhomogeneity generation in the cosmic quark-hadron phase transition. <i>Physical Review D</i> , 1988, 37, 2104-2110.	1.6	61
17	Inhomogeneous nucleosynthesis with neutron diffusion. <i>Physical Review D</i> , 1988, 38, 1091-1099.	1.6	58
18	Large scale inhomogeneities from the QCD phase transition. <i>Physical Review D</i> , 1994, 50, 3738-3745.	1.6	53

#	ARTICLE	IF	CITATIONS
19	Effect of small-scale baryon inhomogeneity on cosmic nucleosynthesis. <i>Physical Review D</i> , 1989, 39, 1046-1053.	1.6	51
20	Hints of isocurvature perturbations in the cosmic microwave background?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 008-008.	1.9	50
21	Inhomogeneous inflation: Numerical evolution. <i>Physical Review D</i> , 1993, 48, 3611-3624.	1.6	47
22	A maximum likelihood approach to the destripping technique. <i>Astronomy and Astrophysics</i> , 2004, 428, 287-298.	2.1	39
23	Inhomogeneous big-bang nucleosynthesis in light of recent observations. <i>Physical Review D</i> , 1999, 59, .	1.6	37
24	Inhomogeneous inflation: The initial-value problem. <i>Physical Review D</i> , 1991, 44, 3077-3086.	1.6	34
25	Constraining isocurvature fluctuations with the Planck Surveyor. <i>Physical Review D</i> , 2000, 61, .	1.6	33
26	Constraining Antimatter Domains in the Early Universe with Big Bang Nucleosynthesis. <i>Physical Review Letters</i> , 2000, 84, 3756-3759.	2.9	29
27	Big bang nucleosynthesis, matter-antimatter regions, extra relativistic species, and relic gravitational waves. <i>Physical Review D</i> , 2002, 66, .	1.6	29
28	Open and closed CDM isocurvature models contrasted with the CMB data. <i>Physical Review D</i> , 2002, 65, .	1.6	29
29	CMB spectrum in Cardassian models. <i>Physical Review D</i> , 2005, 71, .	1.6	26
30	CONSTRAINTS ON SCALAR AND TENSOR PERTURBATIONS IN PHENOMENOLOGICAL AND TWO-FIELD INFLATION MODELS: BAYESIAN EVIDENCES FOR PRIMORDIAL ISOCURVATURE AND TENSOR MODES. <i>Astrophysical Journal</i> , 2012, 753, 151.	1.6	26
31	Overproduction of ^4He in strongly inhomogeneous $\Omega_b=1$ models of primordial nucleosynthesis. <i>Physical Review D</i> , 1990, 42, 1047-1056.	1.6	21
32	Stochastic Isocurvature Baryon Fluctuations, Baryon Diffusion, and Primordial Nucleosynthesis. <i>Astrophysical Journal</i> , 1997, 479, 31-39.	1.6	21
33	Prospects for observing subhorizon preinflation fluctuations in the cosmic microwave background. <i>Physical Review D</i> , 1991, 44, 3072-3076.	1.6	15
34	Antimatter regions in the early universe and big bang nucleosynthesis. <i>Physical Review D</i> , 2000, 62, .	1.6	15
35	Inhomogeneous big bang nucleosynthesis and the high baryon density suggested by Boomerang and MAXIMA. <i>Physical Review D</i> , 2001, 63, .	1.6	13
36	Constraints on neutrino density and velocity isocurvature modes from WMAP-9 data. <i>Physical Review D</i> , 2013, 88, .	1.6	12

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37	Cosmic microwave background power spectrum estimation with the destripping technique. Monthly Notices of the Royal Astronomical Society, 2004, 353, 43-58.	1.6	11
38	Diffusion coefficients and inhomogeneous big-bang nucleosynthesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 289, 211-216.	1.5	9
39	Anisotropy and cosmic nucleosynthesis of light isotopes including Li^7 . Physical Review D, 1985, 31, 1811-1814.	1.6	7
40	Statistical constraints on the inflation effective potential from the COBE DMR results. Physical Review D, 1994, 50, 5431-5434.	1.6	5
41	Relation of redshift surveys to matter distribution in spherically symmetric dust universes. Astrophysical Journal, 1992, 390, 5.	1.6	5
42	Baryon inhomogeneity from the cosmic quark-hadron phase transition. Nuclear Physics, Section B, Proceedings Supplements, 1991, 24, 67-73.	0.5	3
43	Primordial nucleosynthesis with horizon-scale curvature fluctuations. Physical Review D, 1991, 43, 1087-1105.	1.6	3
44	Alternative Solutions to Big Bang Nucleosynthesis. Symposium - International Astronomical Union, 2000, 198, 25-34.	0.1	2
45	Limits on isocurvature fluctuations from Boomerang and MAXIMA. AIP Conference Proceedings, 2001, , .	0.3	0
46	Big Bang Nucleosynthesis Calculation. Space Science Reviews, 2002, 100, 249-261.	3.7	0